

L 3707-66 T JK

ACC NR: AP6027022

SOURCE CODE: CZ/0049/65/000/008/6536/6651

AUTHOR: Macko, Jozef K. (Kosice)

ORG: Helminthological Institute, SAV, Kosice (Helmintologicky ustav SAV)

TITLE: Plagiorchis elegans (Rud., 1802) found on a new host Crex Crex L.

SOURCE: Biologia, no. 8, 1965, 630-631

TOPIC TAGS: parasitology, animal parasite

ABSTRACT: The helminth was found on the host Crex Crex L., shot down on 27 May 1963 at Senne. The helminth measured 2,426 x 749 microns. Anatomical details of the helminth are given. It was positively identified as Plagiorchis elegans (Rud., 1802). Orig. art. has: 1 figure. [JPRS]

SUB CODE: 06 / SUBM DATE: none / SOV REF: 002 / OTH REF: 002

LS

Card 1/1

MACKO, Josef K.

Contribution to the clarification of the concept "specificity"
in helminths. Biologia (Bratisl.) 20 no.12:897-900 '65.

1. Helminthologisches Institut der Slowakischen Akademie der
Wissenschaften in Kosice.

FURDIK, M.; HASKO, J.

Contribution to the examination of the insecticidal properties of
acid esters. Acta Chem. Univ. Bratislava, 1967, 575-576, 1-2.

1. Katedra organickej chémie a biochémie, Univerzita Slovenská,
Bratislava, Šmeralova 2.

L 7687-66 EWR(j)/T RM

ACC NR: AP6000915

SOURCE CODE: CZ/0043/65/000/001/0055/0059

AUTHOR: ^{44,55} ~~Macko, Jozef~~ ^{44,55} ~~Matsko, Y.~~ (Engineer; Candidate of sciences) ³⁹
³ORG: Research Institute for Agrochemical Technology, Bratislava (Vyskumny ustav agro-
chemickej technologic) ^{44,55}TITLE: Direct chlorination of cyclopentadiene in liquid phaseSOURCE: Chemicke zvesti, ^{44,55} no. 1, 1965, 55-59TOPIC TAGS: chlorination, cyclic group, chlorine, chlorinated organic compound,
polymer, polymer physical chemistry, hydrochloric acid

^{44,55} ABSTRACT: A new production method is described; the addition re-
action takes place at cold, using a mixture of HCl and Cl₂. The
substitution reactions that liberate HCl take place separately
at higher temperatures. The first chlorination stage (trichloro-
cyclopentane) takes place separately and thereby the heat of re-
action can be removed and the formation of polymers limited. Con-
tinuous operation with theoretical chlorine consumption is achiev-
ed. It is possible to produce polychlorocyclopentanes with a
desired specific weight of 1.5 to 1.7 and with a content of ap-
proximately 2% of polymers; these are suitable for further treat-
ment to produce hexachlorocyclopentadiene. The author thanks Engr. J. Pesl

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2701.2132

L 7687-66

ACC NR: AP6000915

for the presentation of the results of the measurements of the reaction heat of the chlorination of cyclopentadiene. Orig. art. has: 1 figure, 3 formulas. [JPRS]

SUB CODE: 07, 11 / SUBM DATE: 06Sep64 / ORIG REF: 002 / OTH REF: 006

SOV REF: 002

Card

2/2

PROKES, Jozef, inz.; MACKO, Ladislav, inz.; PALLO, Viliam, inz. CSc.

Influence of sulfurous substances on the gas properties of
electric insulation oils. El tech o:zor 53 no. 1: 36-39
Ja '64.

1. Vyskumny ustav kablov a izolantov, Bratislava.

CZECHOSLOVAKIA

PEPKA, Jozef, Engr, and MACKO, O., Engr, Chair of Agricultural Botany (Katedra polnohospodarskej botaniky), Faculty of Agronomy (Agronomická fakulta), Higher School of Agriculture (Vysoká škola polnohospodárska), Nitra.

"Effect of Penicillium Mycelia on Plants"

Pratislava, Biologia, Vol XVIII, No 4, 63, pp 265-272.

Abstract [Authors' German summary, modified]: Experiments were made with Penicillium mycelia, a waste in the penicillin production, to study their effect on barley. Recorded was the release of the N, P₂O₅ and K₂O forms accessible to plants, after soil was mixed with mycelium. Experiments proved to be of positive influence on the growth of plants and to some extent on the yield of grain. Doses higher than 250 grams of mycelium per 6 kilograms of soil had a negative effect. Three Slovak references.

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CIA-RDP86-00513R001031320003-8

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Z/028/60/000/005/001/003
D255/D304

AUTHORS: Krempaský, Július, Candidate of Technical Sciences, and Macko, Pavol, Engineer

TITLE: Physical foundations for converting radiant energy into electricity, using semiconductors

PERIODICAL: Pokroky matematiky, fyziky a astronomie, no. 5, 1960, 538 - 562

TEXT: The article describes methods of energy conversion, gives theoretical data and calculation, using simplified assumptions. There are 4 types of photoelectric effect according to J. Tauc (Ref. 4: Čs. Čas. Fys. 5, 1955, 34). The barrier photo-EMF: This is shown as $U_o = V_k - V'_k = (E - E')dx$; where V_k is the voltage when dark, and V'_k is the voltage when light. A.J. Gubanov (Ref. 8: ŽETF 25, 1953, 307) gives the formula

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Physical foundations' for ...

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$$U_0 = - \frac{kTg_0L}{eun^\alpha E_k(1 + \alpha L)} \left(e^{\frac{eV_k}{kT}} - \frac{eV_k}{kT} - 1 \right). \quad (4)$$

which allows for the inverse square law, assuming that the light absorption is the same over the whole surface of the semiconductor. For a non-barrier EMF, Tauc (Ref. 4: Op.cit.) gives formulae

$$U_0 = - 2kT u_p \tau g_0 \frac{d_0}{dx}, \quad (6)$$

and

$$U_0 = - \frac{kT}{e} \frac{2}{1+b} \ln \frac{1 + \frac{e(u_n + u_p) \tau g}{\sigma_{en}}}{1 + \frac{e(u_n + u_p) \tau g}{\sigma_{es}}}, \quad (7)$$

for small and large intensities of light, (n-type semiconductor).

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The values for U_0 are (approximately) Germanium = 0.7 V and Silicon 1.1 V. For a photocell (semiconductor with ohmic load) calculations give

$$\left\{ \begin{array}{l} \frac{\partial p}{\partial t} = g_p - \frac{p - p_0}{\tau_p} - \frac{1}{e} \operatorname{div} i_p, \\ \frac{\partial n}{\partial t} = g_n - \frac{n - n_0}{\tau_n} + \frac{1}{e} \operatorname{div} i_n, \\ \text{where } i_p = eu_p \left(pE - \frac{kT}{e} \operatorname{grad} p \right), \\ i_n = eu_n \left(nE + \frac{kT}{e} \operatorname{grad} n \right), \\ i = i_n + i_p, \\ \operatorname{div} E = \frac{\rho'}{\epsilon}. \end{array} \right. \quad (11) \quad X$$

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Physical foundations for ...

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when the lighting is even, the conditions are much simpler as $\partial n / \partial t = \partial p / \partial t = 0$. From this the photocell with p-n arrangement is calculated by Tauc (Ref. 24: Cs cas fys, 4, 1954, 1958). Measurements are shown for silicon and different degrees of illumination. The theory of the non-barrier photocell has not yet been stated. These cells seem to be not as advantageous as the barrier type. Formulas were established regardless of influences on the efficiency of the photocell. Practically, contact resistances have to be considered. Recombinations both on the surface and in the p-n transfer can seriously affect the volt/ampere characteristics. The results are shown for silicon at various light values and several values for series and parallel resistance. The equivalent of an ideal photocell and a real one are also given. For an ideal cell the resistances are calculated according to W. Pfann (Ref. 36: J. of appl. Phys. 25, 1954, 1422) giving maximum output and efficiency. For the photocell the same optimal resistors, output, and efficiency are required. For the resistor R_z

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$$R_s = \frac{kT}{eI_0} e^{-\frac{eU}{kT}} - R_p \quad (31)$$

for the current $I_r = \frac{kT}{eR_r} \ln \frac{kT}{eI_0(R_s + R_p)} \quad (32)$

for the maximal output $W_{max} = UI = \frac{k^2 T^2}{e^2} \frac{1}{(R_s + R_p)} \left[\ln \frac{kT}{eI_0(R_s + R_p)} \right]^2 \quad (36)$ X

and for the efficiency $\eta = \frac{U^2}{(R_s + R_p)} \frac{e}{eI_0} = \frac{UkT}{eI_0(R_s + R_p)} \ln \frac{kT}{eI_0(R_s + R_p)} \quad (37)$

Of the semi-conductor materials Si, InSb, GaAs, CdTe, AlSb, InP, GaAs seems to be the ideal one. On the solar battery, in order to determine the working parameters it is essential to know the photo-Card 5/8

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Physical foundations for ...

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tocell characteristics, and also the radiation characteristics; for the photocell, it is important to know the total sensitivity, the spectral sensitivity and the spectral characteristics. Different materials will behave differently according to the wavelength. In the Soviet Union these batteries have been used for feeding instruments in artificial satellites. One unit was built to supply a 9 transistor set, 0.3 W for the set and 0.2 for the cooler. The working surface is 36 cm². For atomic batteries, mainly β sources are used (isotopes). Sr^{90} and Y^{90} are currently the most often used ones. So far the best practical efficiencies are: Germanium. 0.5 % and silicon 3 %. Compared with solar batteries the atomic ones have the disadvantage of higher costs, but they operate for 24 hours without interruption. Fig. 19 shows the arrangement for an atomic photocell. There are 19 figures, 1 table and 54 references: 32 Soviet-bloc and 22 non-Soviet-bloc. The references to the 4 most recent English-language publications read as follows: J.J. Loferski, J. of Appl. Phys. 27, 1956, 777; M.L. Schultz, G.A. Morton, Proc. IRE, 43, 1956, 1819; H.P.R. Frederikse, R.F. Blunt,

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Physical foundations for ...

Z/028/60/000/005/001/003
D255/D304

Proc. IRE 43, 1955, 1828; Engineering 419, 1955, 4678.

ASSOCIATION: Katedra fyziky SVŠT Bratislava (Department of Physics,
Slovak Technical University, Bratislava)

X

Card 7/8

P/021/62/000/008/002/002
I004/I204

AUTHORS: Macko, Piotr, Master in Engineering

TITLE: A transistor chopper d.c. amplifier

PERIODICAL: Przegląd elektrotechniczny, no. 8, 1962, 331-334

TEXT: The purpose of the work is to describe the design of a d.c. amplifier for automatic regulation characterized by low inertia, isolation of the output from the input, sensitive to the polarity of the input signal with linear and symmetric characteristics. The amplifier is fully transistorized employing Polish made transistors. The chopping is performed by a p-n-p transistor in the common collector circuit. A phase detector is employed after two stages of amplification to control the phase of the output signal in dependence of the polarity of the input signal. The frequency response of the amplifier is flat from zero to a frequency which depends on the capacity of the filter condenser and varies from 100 to 7000 cs. It is pointed out that this type of amplifier, because of its temperature stability and insensitivity toward strong external magnetic fields and due to the isolation between the input and output, may be employed in detecting circuit errors, or may serve as an operational amplifier in automatic regulation systems. The amplifier was employed for grid control of a six-phase mercury-arc rectifier supplying the 4 motors of a rolling mill. There are 10 figures.

ASSOCIATION: Akademia Górniczo-Hutnicza, Katedra Elektrotechniki Hutniczej (Metallurgy and Mining Academy, Faculty of Mining Electrical Engineering)

Card 1/1

MACKO, S.

Vitaminizing of food as a fundamental task of modern practical vitaminology.

p. 4.

(PRZEMYSŁ SPOŻYWCZY. Vol. 11, No. 1, Jan. 1957, Warszawa, Poland.)

SO: Monthly List of East European Accessions (EIAL) Lc. Vol. 6, No. 10, October 1957. Uncl.

MACKO, S.

Natural reserves of the Riesengebirge. p. 4

WSZECHSWIAT. (Polskie Towarzystwo Prsyrodnikow im. Kopernika)
Warszawa. No. 1, Jan. 1959
Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959
Uncl.

1960. STEFAN

Pollen grains and spores from liocene brown coals in Lower Silesia.

Wroclaw (Kanstwowe W. kraj. Larkowe) (Wroclawske Larkowe) (W. kraj. Larkowe).
Larkowe, no. 16. Vol. 1. 1970. 11 p.

Monthly list of East European accessions, Vol. 1, Vol. 2, no. 1, 1970.

Incl.

L 00056-66

ACCESSION NR: AP5023869

CZ/0049/64/000/011/0869/0870

AUTHOR: Macko, Vladimir (Matsko, Vladimir)(Ivanka pri Dunaji); Novacky, Anton (Novatski, Anton)(Ivanka pri Dunaji); Skrobal, Mirko (Shkrobal, Mirko)(Bratislava--Predmestie)

TITLE: Inhibition in "slide germination test" caused by tilletia controversa spores extract

SOURCE: Biologia, no. 11, 1964, 869-870

TOPIC TAGS: plant disease, fungus

ABSTRACT: Tilletia controversa has an incubation period of 4-6 weeks. Tilletia caries, and Tilletia foetida spores germinate in a few days. Spore extracts did not inhibit growth test of wheat coleoptile. The extract from the spores of T. controversa inhibited germination of conidia, while the extracts from T. caries, and T. foetida did not. "The authors acknowledge with thanks the technical assistance of J. Hassler and A. Peknikova."

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L 00056-66

ACCESSION NR: AP5023869

ASSOCIATION: Macko, Novacky---Institute of Experimental Phytopathology and Entomology, Slovak Academy of Sciences, Ivanka pri Dunaji; Skrobál---Research Institute of Agrochemical Technology, Bratislava---Predmestie

SUBMITTED: 24Apr64

ENCL: 00

SUB CODE: LS

NR REF SOV: 000

OTHER: 006

JPRS

mlb
Card 2/2

L 34534-66

ACC NR: AP6024719

SOURCE CODE: CZ/0049/66/000/002/0128/0132

AUTHOR: Macko, Vladimir--Matsko, V. (Candidate of sciences; Ivanka); Novacky, Anton--
Novatski, A. (Candidate of sciences; Ivanka)

ORG: Institute of Experimental Phytopathology and Entomology, SAV, Ivanka 29
D

TITLE: Contribution to the study of plant peroxidase isozymes by means of disc
electrophoresis of acrylamid gel

SOURCE: Biologia, no. 2, 1966, 128-132

TOPIC TAGS: electrophoresis, plant chemistry

ABSTRACT: The authors compared the pattern of peroxidase isozymes of maize, tomato,
bean, pea, tobacco, horse radish peroxidase, and uredospores of Puccinia recondita
to each other; visibility was achieved by hydrogen donors catechol, guaiacol, and
benzidine. The patterns are influenced by the nature of the hydrogen donor. There
are differences in the patterns for individual plants. Orig. art. has: 1 figure.
[Orig. art. in Eng.] [JPRS: 35,814]

SUB CODE: 06 / SUBM DATE: 11Oct65 / ORIG REF: 001 / OTH REF: 020

Cerd 1/1 07

0915

2543

CZECHOSLOVAKIA

MACKO, Vladimir; NOVACKY, Anton; Institute of Experimental Phytopathology and Entomology, Slovak Academy of Sciences, Ivanka pri Dunaji. (Ustav Experimentalnej Fytopatologie a Entomologie SAV), Ivanka pri Dunaji.

"Isozymes of Malate Dehydrogenase in Uredospores of Puccinia Recondita Rob. Ex Desm."

Bratislava, Biologia, Vol 21, No 6, 1966, pp 460 - 461

Abstract: Uredospores of Puccinia recondita harvested from infected rye var. Ceska, grown in a greenhouse were used in the experiments. Uredospores were homogenized with a buffer at pH = 8; the buffer contained 17% sucrose, 0.1% ascorbic acid, and 0.1% cystein hydrochloride. Isozymes of malate dehydrogenase were made visible by immersion into a reaction mixture containing malate, nicotinamide adenin dinucleotide, nitroblue tetrazolium, phenazine methasulfate, and a phosphate buffer at pH 7.5. It was concluded that the germination process causes an appearance of new isozymes. 1 Figure, 9 Western references. (Manuscript received 14 Feb 66). Article is in English.

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001031320003-8

MACKOVA, Blanka, Dr

Effect of enucleation on vital prognosis in intraocular sarcoma and glioma. Cesk. ofth. 10 no.4:252-257 Aug. 54.

1. Z ocní kliniky v Plzni. Prednosta: prof. MUDr R.Knobloch.
 - (EYE, neoplasms, sarcoma, surg., enucleation, postop. mortal.)
 - (RETINA, neoplasms, neuroepithelioma, surg., enucleation, postop. mortal.)
 - (NEUROEPITHELIOMA, retina, surg., enucleation, postop. mortal.)
 - (SARCOMA, eye, surg., enucleation, postop. mortal.)

MACKOVA, Bozena

Classification of antireciprocity in a complex projective plane.
Mat fyz cas SAV 14 no. 2:89-103 '64.

1. Chair of Mathematics and Descriptive Geometry, Faculty of
Building, Slovak Higher School of Technology, Bratislava,
Gottwaldovo namesti 2.

HRDINA, P.; KOVALCIK, V.; Technicka spolupracá: MACKOVA, E.

On blood coagulation changes and the anticoagulant effect of
monoamine oxidase inhibitors. Cas. lek. cesk. 102 no.21:574-579 24 My '63.
(ANTICOAGULANTS) (MONOAMINE OXIDASE INHIBITORS)
(BLOOD COAGULATION) (IPRONIAZID)
(PHARMACOLOGY) (METHYLENE BLUE)

ZITNANSKY, Bohumil; MACKOVA, Helena; H RYTH, Stefan; KOPRVSKY, Martin

Radionuclides as crack indicators. *Raderna energie* no. 21:111
D '64.

1. Research Institute of Metals, Bratislava.

MACHOVA, H., inz.

Fast and accurate measurement of surface temperatures by the
VUSKA thermochalks and thermolacques. Jarni rada op. 1
[1. e. 10] no 1/83 Ja 1965.

1. Research Institute of Mining, Bratislava.

L 56700-65 EWT(d)/EWP(w)/EWP(c)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWP(l)/
EWA(c) Pf-4/Pea DIAAP JD/HM
ACCESSION NR: AP5018985 CZ/0018/64/010/0012/0444/0444

AUTHOR: Zitnansky, Bohumil; Mackova, Helena; Horvath, Stefan; Borovsky, Martin

TITLE: Radionuclides as crack indicators

SOURCE: Jaderna energie, v. 10, no. 12, 1964, 444

TOPIC TAGS: weld defect, welding inspection

Abstract [summaries only, authors' English summary modified]: In welding it is often necessary to cope with cracks. Research and control require a convenient indicator which can give an undistorted picture of the quantity and quality of the possible cracks that must be evaluated in terms of their number and total length. Various crack indicators already have been reported. They are based, e.g., on color effects induced by suitable liquids on polished samples. Redox reactions also are used, combined in some instances with magnetic effects. The cracks detected in this manner usually appear to be larger than

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ACCESSION NR: AP5018985

they actually are. A method has been worked out for using radionuclides for indicating cracks in welded joints. The method is generally applicable to other related fields. Beta sources of suitable energy and half life were used. A large series of samples of welded metals was investigated. The photographs obtained are noted for their sharpness and high resolution. The detailed technology will be published in Jaderna Energie in 1965.

ASSOCIATION: Vyskumny ustav zvaracsky, Bratislava (Welding Research Institute)

SUBMITTED: 00,

ENCL: 00

SUB CODE: MM, NP

NR REF SOV: 000

OTHER: 000

JPRS

Card ^{8/2} 2/2

MACKOVA, O.

A Polish painting. p. 8

CESKOSLOVENSKY VOJAK. Praha, Czechoslovakia. Vol. 8, No. 15, July 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

MACKOVA, Olga; VACULIK, Pavel

Report on the 1st National Conference on Herbicides. Vestnik CSAV
70 no.1:86-87 '61.

MACKOVA, S., Ph.Mr., (Ruska 85, Praha 10); ZEMANOVA-SIMALJAKOVA, J.

Postgraduate education of pharmacists in Czechoslovakia.
Cesk. farm. 14 no.6:281-285 Ag '65.

1. Ustav pro doskolovani lekaru, Praha a Ustav pre dalsie
vzdelavanie lekarov a farmaceutov, Trencin.

MACKOVA, Sylva

Starting postgraduate education for pharmacists. Czech. farm. 3
no.8:266-267 Oct 54.

1. Z ministerstva zdravotnictvi, skolsky odbor
(PHARMACY, education
in Czech., postgraduate educ.)

KREMPASKY, Julius; MACKOVA, Valeria; SKOCKOVA, Eva

New methods of measuring the thermal conductivity of materials.
Mat fyz cas SAV 11 no.2:146-158 '61.

1. Katedra fyziky, Slovenska vysoka skola technicka, Bratislava,
Gottwaldovo namesti 2.

MACKOVA, V.; SKOCKOVA, E.

Measurement of the nonhomogeneity of thermoelectric parameters
in semiconductor pressed materials. El tech cas 16 no.1:45-52
'65.

BULAT, Vuksan, dr inz., docent; VEJNOVIC, Jovan, psiholog, strucni saradnik; MACKOVIC, Rajko, ekonomista

Better use of work time results in increased labor productivity. Tehnika Jug 18 no. 8: Supplement: Organizacija rada 13 no. 8: 1573-1596 Ag '63.

1. Masinki fakultet Univerziteta u Beogradu, clan Redakcionog odbora i redaktor za masinstvo i elektro-tehniku, "Tehnika" (for Vuksan).
2. Republicko vece SSJ za Srbiju, Beograd (for Vejnovic).
3. Sekretar Republickog veka SSJ za Srbiju, Beograd (for Mackovic).

MACKOVS, G.

On the 60th birthday of K.Kundzins, literary scholar and drama critic. Vestis Latv ak SSR no.8:135-136 '62.

BOGUSZEWSKI, W.; MACKOWIAK, Cz.

Fertilizing value of after-harvest residues of melilot and lupine and the process of their decomposition. Roczniki nauk rolniczych 87 no.4:669-693 '63.

1. Pracownia Nawożenia, Instytut Uprawy, Nawożenia i Gleboznawstwa, Gorzów Wlkp. i Puław.

MACKOWIAK, Damian, mgr., inż.

Increased accuracy in calculating crosscurves of stability
by the Krylov-Dargnis waterline method in correcting metacentric
radii. Bud okretowe Warszawa 7 no.2:34-37 '62.

1. Instytut Morski Gdansk

MACKOWIAK, Damian, mgr inż.; Frackowiak, Miłosz, mgr inż.

Stabilizing fins and their influence on the stabilization
of ship rolling. Bud okretowe Warszawa 9 no. 1:12-15 Ja'64.

1. Instytut Morski, Gdansk (for Mackowiak) P. Katedra
Teorii Okretu, Politechnika, Gdansk (for Frackowiak).

MACKOWIAK, Damian, mgr inz.

Disadvantageous effect of free liquid on the transverse
stability of ships. Bud okretowa Warszawa 9 no.12:441-445
D 15.

1. Marine Institute, Gdansk.

MACKOWIAK, Damian, mgr inż.

Significance of the patent policy in shipbuilding. Warszawa
Warszawa 10 no.3.75-78 Mr 185.

1. Marine Institute, Gdansk.

JASNOWSKI, S.; MACKOWIAK, S.; KEMULA, F.

Influence of the stock on *Venturia inaequalis* (Cooke)
Aderh. infecting apply trees. Acta agrobot 14 no.1:245-
255 '63.

1. Laboratory of Seed Breeding and Evaluation and Nurseries,
Institute of Pomology, Skierniewice.

SZWEYKOWSKA, A.; MACKOWIAK, T.

On the development of gametophytes in *Funaria hygrometrica*
and *Ceratodon purpureus* in liquid cultures. *Acta soc botan*
Pol 31 no.2:269-274 '62.

1. Department of General Botany, Adam Mickiewicz University,
Poznan.

MACKCWIAK, W.

Collective factory agreement in the Public Road Maintenance
District in Leszno. p. 175. Vol. 10, no. 7, July 1955; Drogownictwo.

SOURCE: East European Accessions (EEAI), LC, Vol. 5, no. 3, March 1956.

MACKOWIAK, W.

Achievements of the Public Road Maintenance District at Leszno. p. 26
(DROGOWNICTWO. Vol. 12, no. 1, Jan. 1957. Poland)

SC: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

MACKOWIAK, Włodzimierz, mgr inż.

Poland's production of maritime electronic equipment. Tech gosp
morska 12 no.11:326-328 N '62.

1. Morska Obsługa Radiowa Statków, Gdynia.

1. The first of the two main points of the report is that the

the second of the two main points of the report is that the

MACKOWIAK, Zbigniew, mgr inz.

The UMC-1 computer in the service of the mining industry.
Pt.2. Wiadom gorn 15 no.11:354-359 N '64.

MACKOWIAK, Zbigniew, mgr inz.

The UMC-1 digital computer in the service of the mining
industry. Pt.3. Wiadom gorn 15 no.12:384-386 D '64

MACKOWIAK, Zbigniew, mgr inz.; PIWKO, Stanislaw, mgr

The UMC-1 computer in the service of the mining industry. Pt. 4.
Wiadom gorn 16 no.1:27-29 Ja '65.

MACKOWSKI, Alfons

Results of the treatment of breast cancer during 1947-1957.

Polski przegl. chir. 30 no.5:554-555 May 58.

(BREAST CANCER, surgery,
hosp. statist. (Pol))

MACKOWSKI, Alfons

Goiter in the Cieszyn region and remote a result of therapy of
1122 patients. Polski przegl. chir. 31 no.4:387-398 Apr 59.

1. Z oddziału chirurgicznego Śląskiego Szpitala w Cieszynie
Ordynator: dr A. Mackowski.
(GOITER, surg.)

MACKOWSKI, Alfons; PILCH, Tadeusz

Results of surgical therapy of tuberculous cavities during 1950-1960.
Polski tygod. lek. 16 no.14:515-517 3 Ap '61.

1. Ze Szpitala Przeciwgruzliczego w Cieszynie; dyrektor: dr Maria Krasowska i ze Slaskiego Szpitala w Cieszynie; dyrektor: dr Alfons Mackowski.

(TUBERCULOSIS PULMONARY surg)

MACKOWSKI, Alfons

Examination of patients with gastric cancer. Polski przegl. chir.
33 no.7/3:727-728 '61.

1. Z Slaskiego Szpitala w Cieszyne Or..nator: dr A.Mackowski.
(STOMACH NEPLASMS diag)

MACKOWSKI, Alfons

Accessory thyroids. Polski przegl. chir. 34 no.3:239-241 '61.

1. Z Oddzialu Chirurgicznego Slaskiego Szpitala w Cieszynie

Ordynator: dr A. Mackowski.

(THYROID GLAND abnorm)

MACKOWSKI, Alfons

Surgery of lithiasis of the common bile duct. Polski przegl.
chir. 35 no.6:593-599 '63.

1. Z Oddziału Chirurgicznego Śląskiego Szpitala w Cieszynie
Ordynator: dr A. Mackowski.
(COMMON BILE DUCT CALCULI)
(SURGERY, OPERATIVE)

MACKOWSKI, Alfons

Cholelithiasis. Polski przegl. chir. 35 no.6:587-592 '63.

1. Z Oddziału Chirurgicznego Śląskiego Szpitala w Cieszynie
Ordynator: dr A. Mackowski.
(CHOLELITHIASIS) (SURGERY, OPERATIVE)

MACKOWSKI, Alfons

Apropos of plastic surgery of Vater's ampulla. Pol. przegl.
chir. 35 no.7/8:796-799 '63.

1. Z Oddziału Chirurgicznego Śląskiego Szpitala w Cieszynie
Ordynator: dr A. Mackowski.
(VATER'S AMPULLA) (SURGERY, OPERATIVE)

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MACKOWSKI, J. MD, dept. director; STROJIL, J.

Stomatological department of the hospital and polyclinic (stomatologicke oddeleni
nemocnice a poliklinikou) Karvina

Prague, Ceskoslovenska Stomatologie, No 6, 1962, pp 442-448

"Present State of Traumatology of the Orofacial System"

MACKOWSKI, W.

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2364. Exchange of sodium potassium and calcium ions on Vofatite P in solutions resembling human gastric juices in their ionic composition. A. Narebska and W. Mackowski *Acta Biochim. Polon.*, 1966, 3, 271-295 (Inst. Phys. Chem., Kopernik Univ., Torun, Poland).—The ion exchange resin, Vofatite P sat. to 20-25% of capacity with K⁺ and introduced into a soln. resembling human gastric juice in ionic composition causes no K⁺ loss from the soln. while the exchange of Na⁺ is not reduced. The resin partly sat. with Ca²⁺ is still capable of Ca²⁺ exchange. The loss of Ca²⁺ from soln. may be reduced by using a resin with pores and capillaries less than 9-6 Å in diameter. The use of resins with carboxyl and sulphonic acid groups, containing H⁺, K⁺ and NH₄⁺ is suggested for the treatment of oedema. A formula for the calc. of the number of particular groups required according to their exchange capacity and the daily dose of the resin is given. (Polish) A. K. Gzyzowski

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Use of models in research work on sedimentation. p. 44.

Vol. 4, no. 2, Feb. 1954
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Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 3, August 1956

GER/Chemical Technology. Chemical Products and Their Application.
Water Treatment. Sewage.

H-5

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5129.

Author : Mackrle, Svatopluk; Tesarik, Igor; Mackrle, Vladimir;
Mican, Vladimir.

Inst :

Title : Results of Experiments Carried out at Experimental Pilot-
Plant Clarifier with Suspended Layer.

Orig Pub: Wasserwirtsch.-Wassertechn., 1957, 7, No 11, 428-431.

Abstract: The study of the process of water clarification was made
at an experimental clarifier consisting of following
items: a reaction chamber situated in the upper central
part of the clarifier and containing a flocculation cham-
ber in it; a mechanical stirrer with controllable rota-
tion number; pumps feeding slime from the slime settler
into the flocculation chamber and into the zone of the

Card : 1/4

GDR/Chemical Technology. Chemical Products and Their Application.
Water Treatment. Sewage.

H-5

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5129.

suspended precipitate layer (SPL); an arrangement for water supply and discharge. The maximum cross-section of the clarifier is 0.671 sq.m. The dosing of coagulants was carried out with a diaphragm pump. It was established that at velocities from 1.2 to 2 mm per sec, the height of the SPL was constant, the slime concentration being about 300 mg per liter, and only separate flocs being found above the slime layer. When the velocity was reduced to 0.7 mm per sec or less, the slime particles sank accumulating in the lower part of the apparatus, and the result of clarification deteriorated. When the velocity of water was increased above 2.5 mm per sec, the flocs broke and were carried out into the zone of clarified water. In order to produce the SPL when the

Card : 2/4

GDR/Chemical Technology. Chemical Products and Their Application.
Water Treatment. Sewage.

II-5

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5129.

clarifier was put into comission, the slime was fed from the slime settler into the SPL zone through a pipe radially connected to the apparatus. On this occasion, the stream of slime reached the wall of the cylindrical inside part of the apparatus, was split and produced finely dispersed slime particles. The SPL was produced in less than 15 min. The described method of preparing the SPL can be recommended for industrial clarifiers. Experiments carried out with a disengaged stirrer and with a reduced duration of the presence of water in the reaction and flocculation chambers showed that the flocculation processes taking place before water entered the SPL zone practically did not influence the work of the clarifier. It is recommended to discontinue the use of mechanical stirring in clarifiers

Card : 3/4

MACKRLE, S.; MACKRLE, V.; MICHAN, V.

What is new in filtration and its application in water treatment.

P. 171, (Voda) Vol. 36, No. 7, July 1957, Praha, Czechoslovakia

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p. 246.

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VOJENSKÉ HOSPODÁŘSTVÍ

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accessions, Vol. 5, No. 5, May 1956

GDR/Chemical Technology. Chemical Products and Their Application.
Water Treatment. Sewage.

H-5

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5129.

Author : Mackrle, Svatopluk; Tesarik, Igor; Mackrle, Vladimir;
Mican, Vladimir.

Inst :

Title : Results of Experiments Carried out at Experimental Pilot-
Plant Clarifier with Suspended Layer.

Orig Pub: Wasserwirtsch.-Wassertechn., 1957, 7, No 11, 428-431.

Abstract: The study of the process of water clarification was made
at an experimental clarifier consisting of following
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into the flocculation chamber and into the zone of the

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GDR/Chemical Technology. Chemical Products and Their Application.
Water Treatment. Sewage.

H-5

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5129.

clarifier was put into comission, the slime was fed from the slime settler into the SPL zone through a pipe radially ccnnected to the apparatus. On this occasion, the stream of slime reached the wall of the cylindrical inside part of the apparatus, was split and produced finely dispersed slime particles. The SPL was produced in less than 15 min. The described method of preparing the SPL can be recommended for industrial clarifiers. Experiments carried out with a disengaged stirrer and with a reduced duration of the presence of water in the reaction and flocculation chambers showed that the flocculation processes taking place before water entered the SPL zone practically did not influence the work of the clarifier. It is recommended to discontinue the use of mechanical stirring in clarifiers

Card : 3/4

... .., v., and others

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Uncl.

A. MACKU

"Economizing on fireproof materials." p. 64. HUTNIK, Vol. 3, no. 3, Mar. 1953, Praha, Czechoslovakia.)

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Fundus oculi in late gestoses. Cesk. ofth. 11 no.6:404-410
Dec 55.

I. Z II. oční kliniky, přednosta akad. MUDr. Jaromír Kurz, a z
II. porodnicko-gynekologické kliniky, přednosta prof. MUDr.
Josef Lukas.

(PREGNANCY TOXEMIAS, manifestations,
eye)

(EYE, in various diseases,
pregn. toxemias, late)

BLEKTA, Mojmir, MUDr.; MACKU, Frantisek, MUDr.

Delivery in late toxemia. Cesk. gyn. 22/36 no.1-2:40-47
Feb 57.

1. II. por. klinika KU v Praze. Prednosta doktor lek. ved,
prof. MUDr. J. Lukas.

(PREGNANCY TOXEMIAS, statist.

delivery in late toxemia (Cz))

(DELIVERY, statist.

in late pregn. toxemia (Cz))

MACKU, Frantisek, MUDr.; BLEKTA, Mojnir, MUDr.

Incidence of late toxemia. Cesk. gyn. 22/36 no.1-2:47-53
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prof. MUDr. J. Lukas.

(PREGNANCY TOXEMIAS, statist.
late toxemia (Cz))

MACKU, Frantisek (Praha 2, Apolinarska ul. 18)

Urination disorders after gynecological surgery. Cesk. gyn. 24[38]
no.5:377-381 June 59.

1. ⁵⁹ii. por. gyn. klinika KU, prednosta prof. MUDr J. Lukas.
(GENITALIA, FEMALE, surg.
postop. urine retention (Cz))
(URINATION DISORDERS
postop. retention in gyn. surg. (Cz))

BLEKTA, M.; MACKU, Fr.; BENDL, J.; PESKOVA, V.; CHYTIL, M.; OPPLT, J.;
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Protein metabolism disorders in late gestosis. Acta univ. carol.
[med.] Suppl. 14:141-161 '61.

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University Karlovy v Praze, prednosta prof. dr. J. Lukas II. interni
klinika fakulty vseobecneho lekarstvi University Karlovy v Praze,
prednosta prof. dr. F. Herles Biochemicke oddeleni fakultni nemocnice
v Praze, prednosta prim. dr. J. Opplt.

(PREGNANCY TOXEMIAS blood) (BLOOD PROTEINS in pregnancy)

BLEKTA, M., CSc.; BENDL, J.; MACKU, F.; MISINGER, I.; PESKOVA, V.; OPPLT, J.;
CHYTIL, M.

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DrSc. Biochemicke oddeleni fak. nemocnice v Praze 10 II int. klin.
KU v Praze, prednosta prof. MUDr. F. Herles.

(PREGNANCY TOXEMIAS statist)
(HYPERTENSION in pregnancy)

CERNY, Ludek; KANKA, Jiri; MACKU, Frantisek

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Detska psychiat. lec. Dolni Pocernice, predn. MUDr. L. Cerny.

(GYNECOLOGY surg)	(MEPROBAMATE ther)
(PHENMETRAZINE ther)	(PARASYMPATHOLYTICS ther)

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1. II. gyn.-por. klin. fak. vseob. lek. KU v Praze, prednosta prof.
dr. J. Lukas, DrSc.
(GYNECOLOG) (GERIATRICS) (SURGERY OPERATIVE)

BLEKTA, M., CSc.; MACKU, Fr.; BENDL, J.; ANDRASOVA, V.; MISINGER, J.;
CHYTIL, M.; OPPLT, J.; VAKOCOVA, H.

Residual hypertension and proteinuria in late toxemias. Cesk. gyn. 27
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dr. J. Lukas, DrSc. II. int. klin. fak. vseob. lek. KU v Praze, prednosta
prof. dr. Fr. Herles Biochem. odd. fak. nemocnice v Praze 10,
prednosta dr. J. Opplt.

(PREGNANCY TOXEMIAS) (PROTEINURIA)
(HYPERTENSION) (KIDNEY DISEASES)

MACKU, Fr.

Apparatus for cystometry and sphincterometry. Cesk. gynek. 27 no.9:
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(CYSTOSCOPY)

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Some comments and experiences with the Aldridge technic
of abdominal hysterectomy. Cesk. gynek. 29 no.5:331-333
Je'64.

1. II. gyn.-por. klin. lek. fak. vasob. lek. KU [Karlovy
University] v Praze; prednost: prof. dr. J. Lukas, D.Sc.

TRNKA, V.; MACKU, F.

Contribution to plastic surgery on the fallopian tubes. Cesk.
gynec. 29 no.5:345-346 Je'64

1. II. gyn. per. klin. fak. všeob. lek. KU [Karlovy university]
v Praze; přednosta: prof. dr. J. Lukas, DrSc.

MISINGER, I.; MACKU, F.

Our experiences with peroral contraception with progestagens.
Cesk. gynek. 29 no.9:708-712 N ' 64

1. II gyn-por. klin. fak. vseob. lek. Karlovy University v
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MAJST, F.

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I. II. gyn. por. klin. fak. vneob. lek. Karlov University in
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SKODA, V. (Praha 2, Apolinarska 18); MACKU, F.; MISINGER, I.; TRNKA, V.;
ZIKMUND, J.

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University v Praze (prednosta prof. dr. J. Lukas, DrSc.).

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J. Lukas, DrSc.) a Vyzkumny ústav endokrinologický (reditel - doc.
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Contribution to hypofibrinogenemic hemorrhage during labor and abortion. Vnitřní lek. 11 no.2:168-174 F '65

1. II. vnitřní klinika prof. Dr. Herleser II. porodnicko-gynekologická klinika prof. Dr. Lukase a I. porodnicko-gynekologická klinika prof. Dr. Klause.

CZECHOSLOVAKIA

MACKU, J., Engineer

Chair of Medical Physics of the Medical Faculty of
Charles University (Katedra lekarske fyziky lekarske
fakulty KU), Hradec Kralove

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"Possibilities of Automation in Diagnostics."

CZECHOSLOVAKIA

MACKU, J., TIKAL, K. and VESELY, C.; Department of Medical Physics, Department of Pharmacology and Department of Physiology of the Medical Faculty of the Charles University (Ustav lekarske fysiky, Farmakologicky ustav a Fysiologicky ustav lekarske fakulty Karlove University,) Hradec Kralove.

"Use of Modular Universal Impulse Unit in Electrophysiology."

Prague, Ceskoslovenska Fysiologie, Vol 12, No 4, July 1963; pp 279-282.

Abstract: Description of device composed of 6 functional units, essentially generator, rectifier, selector, modulator and recorder. The primary use of this impulse generator is transient stimulation with derivative and 90° impulses whose intensity or amplitude can be changed independently. Several applications are described, including study of frog ischiadic nerve action potential dependency on amplitude of stimulatory impulse. Seven graphs, electrical schematic diagram, 2 diagrams, 1 photograph; 5 Czech references.

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Effect of individual elements on the growth and the active substances of some medicinal plants. Jan Blazek. Sbornik 1st. akad. zemed. Prag 46, 363(1931); Phosphorsure 3, 767. --P was as effective as N in increasing the formation of sinapic acid in *Sinapis alba*, but it had no effect on the wt. of the plants. The phosphate and NH₄ ions had a superior effect in increasing the growth of *Labellia inflata* and the production of lobeline; the K ion was detrimental. The best growth of *Carduus benedictus* was obtained by fertilizing the plants with Nitrophoska, but the highest yields of sinic were obtained with phosphate and N combinations; K compds. had an unfavorable effect on production of sinic. K D. Jacob

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MACKU, J.

Macku, J. Masaryk and Darwinism. p. 203. CESTOSLOVENSKA BIOLOGIE. Praha.
Vol. 3, no. 4, Aug. 1954.

30: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 11,
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Nase liecive rastliny; zber, pestovanie, uprava, ucinne latky, upotrebenie. Map-
isali Jan Macku Jozef Mokry. Bratislava, Vydavatelstvo Slovenskej akademie vied,
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Laboratory equipment used in sets.

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February 1958

L 00260-66

ACCESSION NR: AP5013485

CZ/0088/65/001/001/0056/0061

AUTHOR: Macku, J. (Engineer, Candidate of sciences)
Nadvornik, P. (Docent, Doctor, Candidate of sciences)

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65

TITLE: Electronic model of a neuron according to N. E. Wedensky

SOURCE: Kybernetika, v. 1, no. 1, 1965, 56-61

TOPIC TAGS: neuron, electronic simulation

ABSTRACT: Those properties of the neuron which can be described by the characteristic relation $f_2 = f_1^2$ between the frequencies of the input and output signals were simulated on the basis of Wedensky's theory of nerve cell function. In the graphic representation, the course of the function corresponds to the stage of inhibition and to the stage of transmission of excitation. The electronic model was designed so that in addition to the function, it simulates even some anticipated structural and energetic properties of the cell. In the design of the model of the biological neuron, there is a tendency to interpret the integration input circuits as the memory elements and the inhibition as the protective mechanism of the cell. The model itself was prepared in two variants: an electronic one and a transistorized one, both of which permit a better utilization of the electrochemical elements

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ACCESSION NR: AP5013485

of the memory. Orig. art. has: 3 figures.

ASSOCIATION: None

SUBMITTED: 22Jun64

ENCL: 00

SUB CODE: LS, EC

NO REF SOV: 000

OTHER: 002

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SANTHOLZER, Vilem; HAVLOVIC, Vratislav; MACKU, Jiri; PODZIMEK, Josef

Results of the long-term measurement of atmospheric fallout and the problem of seasonal variations. Sborn.ved.prac.lek.fak.Karlovy.univ. (Hrad.Kral) 6 no.1:Suppl.:119-134 '63.

1. Katedra fyziky Lekarske fakulty Karlovy University v Hradci Kralove; prednosta prof. RNDr. V. Santholzer Geofyzikalni ustav CSAV; prednosta CSc. RNDr. J. Podzimek.

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